

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit	UniProt ID: #Q9UKE5	Entrez-Gene Id: 23043
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TNIK Antibody recognizes endogenous levels of total TNIK protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg567 of human TNIK protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		TRAF2 and NCK-interacting protein kinase (TNIK) is a member of the germinal center kinase (GCK) family (1). TNIK phosphorylates TCF4 and is an essential activator for Wnt signaling (2). Animal knockout model and kinase inhibition studies have reported that TNIK can stimulate both cancer cell growth and epithelial-mesenchymal transition (EMT) (3-5). TNIK has also been shown to promote F-actin disruption through its interactions with Rap2 (6). In neuronal cells, TNIK is enriched in the postsynaptic density (PSD), where it is reported to modulate neuronal receptor surface expression and dendrite complexity and signaling (7-9).				
Background References		1. Fu, C.A. et al. (1999) 2. Mahmoudi, T. et al. (3. Masuda, M. et al. (20 4. Kim, J. et al. (2014) <i>P</i> 5. Shitashige, M. et al. (6. Taira, K. et al. (2004) 7. Hussain, N.K. et al. (2 8. Coba, M.P. et al. (201 9. Larhammar, M. et al.	J Biol Chem 274, 30 2009) EMBO J 28, 3 016) Nat Commun LoS One 9, e11018 (2010) Cancer Res J Biol Chem 279, 49 2010) J Neurosci 30 (2) J Neurosci 32, 13 . (2017) J Neurosci 3	9729-37. 329-40. 7, 12586. 0. 70, 5024-33. 9488-96. , 14786-94. 3987-99. 37, 11074-11084.		
Species Reactivi	ity	Species reactivity is det	termined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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